

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/018684

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F01L9/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F01L F02D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 494 007 A (SCHROEDER ET AL) 27 February 1996 (1996-02-27) column 1, line 50 – column 2, line 6 column 2, lines 18-38 column 2, lines 45-51 column 5, lines 14-55 column 6, lines 37-48 column 8, lines 9-12 figures 1,2,4a-d,5,7a-b,8a-b,9a-b,10 ----- -/-	1,2,4,5
A	column 1, line 50 – column 2, line 6 column 2, lines 18-38 column 2, lines 45-51 column 5, lines 14-55 column 6, lines 37-48 column 8, lines 9-12 figures 1,2,4a-d,5,7a-b,8a-b,9a-b,10	3

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the International search

23 May 2005

Date of mailing of the International search report

01/06/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/213452 A1 (POMERLEAU DAN) 20 November 2003 (2003-11-20) paragraph '0001! paragraph '0006! paragraph '0040! paragraph '0045! paragraph '0047! paragraph '0049! figures 1,2,3a-c,4a-c,5a-c,6a-c,7,8,9a-f,10	4,5
A	DE 101 51 201 A1 (MASBERG, ULLRICH) 30 April 2003 (2003-04-30) paragraph '0001! paragraph '0042! paragraph '0049! figures 1a,1b,2,3,5,6	1,4
A	WO 03/025353 A (MASSACHUSETTS INSTITUTE OF TECHNOLOGY) 27 March 2003 (2003-03-27) page 1, lines 5-7 page 2, lines 21-29 page 3, lines 12-14 page 7, lines 21-29 page 11, lines 1-11 figures 6,8,10,17a-b,18a-b,19,20a-b,21a-b	1,4,6
A	US 5 873 335 A (WRIGHT ET AL) 23 February 1999 (1999-02-23) column 1, lines 5-7 column 2, lines 1-7 column 2, lines 28-56 column 5, lines 18-21 figures 2,4,5	1

INTERNATIONAL SEARCH REPORT
Information on patent family members

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 5494007	A	27-02-1996	US US DE DE EP	5327856 A 5598814 A 69302995 D1 69302995 T2 0603929 A1		12-07-1994 04-02-1997 11-07-1996 10-10-1996 29-06-1994
US 2003213452	A1	20-11-2003	AU WO	2003240216 A1 03098073 A2		02-12-2003 27-11-2003
DE 10151201	A1	30-04-2003	NONE			
WO 03025353	A	27-03-2003	WO US	03025353 A1 2003051688 A1		27-03-2003 20-03-2003
US 5873335	A	23-02-1999	BR DE DE EP JP WO	9906814 A 69904565 D1 69904565 T2 1045960 A1 2002500311 T 9935376 A1		10-10-2000 30-01-2003 25-09-2003 25-10-2000 08-01-2002 15-07-1999